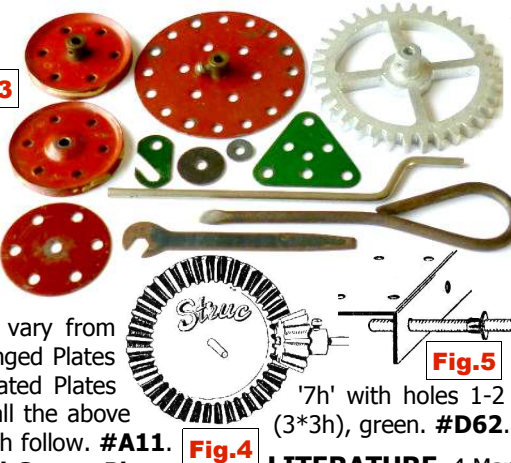


**STRUC** This is one of the several new systems which appeared in The Netherlands soon after WW2, and its 63 parts include a few unusual items. It was made by Nederlandse Speelgoederen Industrie of Wijhe (Overijssel), a small town some 80km east of Amsterdam, & the firm was registered there from 1946 to 1950. In mid-1947 its factory was in Veerstraat & Outfits 1-3 plus linking sets were advertised. Later Sets 3A-5 were added.

These notes are based on: • one lot to hand of 4 sets, Nos.2,2,2A,4A, plus some extra parts; • scans of manuals kindly sent by Urs Flammer & Jan Ringnalda; • photos of 5 sets from the Hong website & 3 from Ebay.

**The PARTS** Manuals have no Illustrated Parts but some can be seen in Figs.3-5 & others can be seen in the models shown later. **Basics.** Holes are 3.9mm at 14.0mm pitch. The only slotted hole is in the Slotted Strip. Axles are 3.7mm Ø. The thread is 1/8" BSW. Strips have near fully rounded ends; many other strip part ends have a larger radius. A/Gs & most Plates have square corners. Bosses are brass, 8mm Ø, & double-tapped. The parts are accurately made and quite well finished. Strips, Brackets & A/Gs vary from mid to dark green; circular parts & Flanged Plates are mid red with a few lighter; Perforated Plates are a mid to dark blue. Exceptions to all the above are given in the notes on the parts which follow. **#A11.**

**Flanged Plate, 5\*9h. #A12. Flanged Sector Plate,** 8h long, with straight ends & slightly rounded flange corners. **#A21,22,25-27. Perforated Plates,** 3\*4,5h & 5\*7,9,15h. **#A23,24. Girder Plates,** red, 3\*7,9h with 3,4 16 1/2mm holes & rounded corners, see Fig.13. **#A32-315. Strips,** 2,3,4,5,6,7,9,10,11,15h. **#A41,42. A/B,** 1\*1,2h. **#A51,55. D/B,** 1,2h high. **#A52-54. DAS,** 1\*3,5\*1h, 2\*5\*2h. **#A61,62. Double Bent Strips,** 1,2h high. **#A71,72. Rev. A/B,** 1\*1,2\*1h. **#A95,99,915. A/G,** 5,9,15h. **#B31,32. Washers,** Fig.3, 10.1,17.8mm, blackened. Their holes are 3.4mm, too small take an Axle. **#B41. Wheel Disc,** 6h, 38.5mm Ø. Also found: 4 like the discs from Pulley B61 but with no spot weld marks. **#B42,52. Circular Plate, Face Plate** (Fig.3), both 65.7mm Ø with circles of 6 & 16 holes at 14 & 28mm radii. **#B61,71,72. Pulleys:** 41.8mm, ditto with boss, both (Fig.3) with face holes as B41; 72.9mm with boss & face holes as B42. **#B91-**



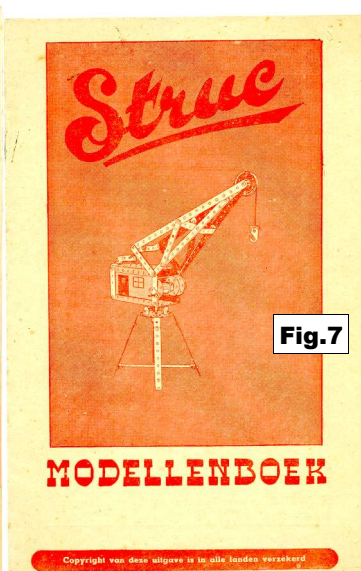
**95. Gears,** sand cast, part machined, aluminium with integral bosses. **Spurs:** 14,21,35t, 6mm thick, Mod.2, stamped 'STRUC'. Approx. 31,45,72mm o.d. The 35t (Fig.3) has cutouts, the others none. **Bevels:** 40,13t. Approx. 84,30mm o.d. Fig.4 is from the Model Leaflet, 'Struc' is cast in. **#C21-23. Screwed Rods,** 35, 65,105mm. **#C31. Crank Handle,** 127mm long o/a, with 20mm handle offset 17mm (Fig.3). **#C51-53. Axles,** 115, 135,275mm, with slightly rounded ends. **#C61. Bolt,** brass, 5mm Ø CH, 6 1/2mm u/h (also found: 10mm u/h; steel, RH, 5 & 10mm u/h, the 5mm used as set screws). **#C71. Nut,** brass, hexagonal, 6.0mm A/F. **#C81. Span'driver** (Fig.3), blackened, 80mm long o/a. **#C82. Screw-driver,** the one in the Lot (Fig.3) is 111mm long o/a and made of (thicker than usual) 4.5mm wire. **#C91. Crane Hook** (Fig.3), flat, green, made from a 2h Strip. **#D11. Tyre.** 3 types have been seen: a fat, fawn rubber ring, 66mm Ø (Fig.13); a similar black rubber ring, 63mm Ø; a black tyre, 62mm Ø, with circumferential tread. All diameters off-wheel. **#D21. Bush.** This part (Fig.5) has only been seen in a manual's Standard Construction. It is pushed into a hole for a Screwed Rod to run in. **#D31. Collar,** 8mm Ø, 7 1/2mm long. **#D41. Slotted Strip,** '7h' with holes 1-2 & 6-7 slotted. **#D51. Trunnion,** 5h (3\*3h), green. **#D62. Triangular Plate,** see Fig.3.

**LITERATURE** 4 Manuals & a Leaflet are known. In probable date order they are as follows, referring to them by the cover model. **The Yacht & Crane** (Figs.6,7) seem to be from the same period and Sets 1-4 are advertised in each. The Yacht/ Crane have models for Sets 1-2/1-3 with inventories for those sets. The models are shown as line drawings, with shading on the No.3 models, and there are parts lists for them at the end of the manuals.

Next **2 Windmill** manuals with the same cover (Fig.8). Both have Sets 0-3 on it & both have identical models for those sets. Sets 0-4 are advertised in each. The Set 1 & 2 models have been redrawn with shading and there are additional No.3 models. But **'Windmill 3'** has inventories for Sets 0-3 while **'Windmill 5'** has them for Sets 0-5. Both inventories include Tyres & the associated changes, none of which were in the Yacht/Crane. And both show the Bush D21 but it is only in the Windmill 3 inventories. Although the Windmill manuals

above are thought to be later than the Yacht/ Crane it is quite likely that there was at least one earlier edition. This is because the first word of the company's name on the covers is 'Nederlandsche' against 'Nederlandse' in the other manuals. I believe that this change of spelling occurred soon after WW2.

The **Leaflet** (Fig. 9) has Set 4 models and an inventory for Set 3A. No other sets





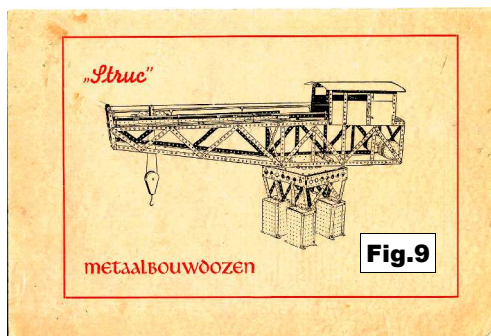


Fig.9

are mentioned.

#### More Details:

**The Yacht** has 24 pages 222\*141mm plus covers. The Yacht on the cover is a No.1 model. The models are 1-1 PIANOKRUKJE [Piano Stool] to 1-30 ZWEEFMOLEN [Flying

Chairs Carousel]; 2-1 TRACTOR to 2-15 Vliegende Hollander [Flying Soap Box, Fig.14]. p19 has 10 Basic Constructions, C3 lists the Sets, C4 is blank.

**The Crane** has 28 pages 214\*138mm plus covers. The Crane on the cover is a No.3 model. The No.1 & No.2 models are as above. Set 3: 3-1 Klapbrug [Double Bascule Bridge] to 3-5 Vliegtuig [Monoplane]. p2 has 10 Basic Constructions, C3 is blank; C4 lists the Sets.

**The Windmill 3** has 36 pages 217\*147mm plus covers. The Set 0 models are 0-1 Hakbijl [Axe] to 0-15 Weegsehaal [Scales]. Set 1 & 2 models are as above. Set 3: 3-1 Klapbrug (as above) to 3-15 Scharenslijp [Scissor Sharpener, Fig.19].

Magazijn nummer	Omschrijving	0	1	2	3	4	5
A 11	grondplaat	—	1	1	2	2	2
A 12	sectorplaat	—	—	—	—	2	2
A 21	vlakke plaat 3—4 gaten	—	—	—	2	2	2
A 22	vlakke plaat 3—5 gaten	—	—	—	—	2	2
A 23	vlakke plaat 3—7 gaten	—	—	—	—	2	2
A 24	vlakke plaat 3—9 gaten	—	—	—	—	2	2
A 25	vlakke plaat 5—7 gaten	—	—	—	—	1	1
A 26	vlakke plaat 5—9 gaten	—	—	—	—	2	2
A 27	vlakke plaat 5—15	—	—	—	—	2	2
A 32	vlakstaaf 2 gaten	—	—	—	4	4	4
A 33	vlakstaaf 3 gaten	1	2	4	4	4	4
A 34	vlakstaaf 4 gaten	—	—	—	4	4	4
A 35	vlakstaaf 5 gaten	2	4	8	12	12	12
A 36	vlakstaaf 6 gaten	—	—	—	4	4	4
A 37	vlakstaaf 7 gaten	2	2	4	6	6	6
A 39	vlakstaaf 9 gaten	1	2	4	6	6	6
A 310	vlakstaaf 10 gaten	—	—	—	2	2	2
A 311	vlakstaaf 11 gaten	1	2	6	6	6	6
A 315	vlakstaaf 15 gaten	—	—	—	2	2	2
A 41	hoeksteunen 2 gaten	2	4	6	10	10	10
A 42	hoeksteunen 3 gaten	1	2	4	4	4	4
A 51	beugel 1—1—1 gaten	1	1	2	3	3	3
A 52	beugel 1—3—1 gaten	2	2	4	4	4	4
A 53	beugel 1—5—1 gaten	1	2	4	4	4	4
A 54	beugel 2—5—2 gaten	—	—	1	2	2	2
A 55	beugel 2—1—2 gaten	—	—	—	1	1	1
A 61	omega beugel 5 gaten	—	—	—	1	1	1
A 62	omega beugel 7 gaten	—	—	—	1	1	1
A 71	zetstuk 3 gaten	—	—	—	2	2	2
A 72	zetstuk 4 gaten	—	—	—	1	1	1
A 95	hoekbalken 5 gaten	—	—	—	—	4	4
A 99	hoekbalken 9 gaten	—	—	—	—	4	4
A 915	hoekbalken 15 gaten	—	—	—	—	4	4
B 31	onderlegging 10 mm	—	2	4	5	5	5
B 32	onderlegging 17 mm	—	2	4	6	6	6
B 41	plat wiel 7 gaten	2	4	4	4	4	4
B 42	plat wiel 23 gaten	—	—	2	2	2	2
B 52	wiel 23 gaten met naaf	—	—	—	2	2	2
B 61	flenswiel 7 gaten dubbel	—	—	—	2	2	2
B 71	flenswiel 7 gaten dubbel met naaf	—	—	—	2	2	2
B 72	flenswiel 23 gaten dubbel met naaf	—	—	—	—	2	2
B 91	tandwielen recht 14 tanden	—	—	—	—	—	1
B 92	tandwielen recht 21 tanden	—	—	—	—	—	2
B 93	tandwielen recht 35 tanden	—	—	—	—	—	2
B 94	tandwiel conisch 40 tanden	—	—	—	—	1	1
B 95	tandwiel conisch 13 tanden	—	—	—	—	1	1
C 21	draadas 35 mm lang	1	1	2	3	3	3
C 22	draadas 65 mm lang	—	1	2	2	2	2
C 23	draadas 105 mm lang	—	1	2	3	3	3
C 31	krukhandle	—	1	1	1	2	3
C 51	gladde as 115 mm lang	—	—	—	2	2	2
C 52	gladde as 135 mm lang	—	—	—	—	2	2
C 53	gladde as 275 mm lang	—	—	—	—	1	3
C 61	boutje	10	10	35	58	78	88
C 71	moertje	14	14	44	80	100	110
C 81	moersleutel	1	1	2	3	3	3
C 82	schroevendraaier	—	—	—	—	—	1
C 91	kraanhaak	—	1	1	2	2	2
D 11	autobandje (voor B 61—B 71)	—	—	2	4	4	4
D 31	stelring	—	1	1	1	5	10
D 41	sleufstrippen 3 gaten 2 sleuven	—	—	—	—	4	4
D 51	omgezette driehoek	—	—	—	—	4	4
D 62	gelijkzijdige driehoek	—	—	—	—	2	2

Fig.10

There is no 3-2. No parts list is provided for any of the models. pp1-2 have 11 Basic Constructions (No.11 is the Bush, Fig.5). pp31-32 shows 5 other models, set unspecified, including a Loco & Tender & the Eiffel Tower in Fig.11; p34 has a price list of parts A11-D31; pp35-36 are blank; C3 lists the Sets.

**The Windmill 5** is as Windmill 3 except that a few pages are interchanged and rearranged, with no blank pages. The inventories (Fig.10) are on pp34-35.

**The Leaflet** is a sheet of thin card folded 3 times to give 8 panes 160\*237mm. The Blocksetter on the front includes a few parts not otherwise known: the 15h Girder Plate; the 15\*15h Plate which forms the top of the tower; & the Pulley Block. The models are 4-1 Electrische tram to 4-5 Verrijdbare draaikraan [Mobile Slewing Crane] in Fig.12. They are again shaded drawings with no parts list. The use of the Bevel Gears is explained but they are not used in any of the models (it is suggested though that they might replace a friction drive in one of them). So did Set 4 exist without the Bevels? Probably because in the 3A inventory the Bevels & a Crank Handle are the last 3 items and are all out of order in the sequence of PN's. Set 4 is mentioned in 3 of the manuals above and so it's possible that this Leaflet was concurrent with some/all of them. Oddly the company's name isn't anywhere in the Leaflet.

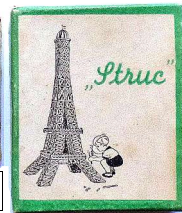
**Other Manuals** Yacht manuals with '1' and possibly '1<sup>A</sup>' instead of '2' on the cover.s

**SETS** The two types of lid known are shown in Figs.1,2, and they will be called the red & the yellow lid. The Set No. is stamped in a roundel on the lid but is often indistinct. Apart from a yellow 4A the sets seen are from the range 0-2A and include examples of both lids in several sizes. It isn't known which came first but the yellow looks more modern.

9 of the 12 sets seen have partitioned boxes with a few parts on backing cards. In the others, Sets 0A, 1, & 4A, all with yellow lids, the parts are attached to a single card, variously by wire clips, cord, N&B, or by being pushed into slits or holes. N&B are in the small box, right, 7¼\*5¾cm, but the box far right, 7¾\*6½cm, was in one of the Lot sets.



Fig.11



There is no discernible pattern to the manuals with the sets seen, with quite often seemingly inappropriate or unlikely combinations.

**The Set Contents**, taken from the Windmill 5 manual are shown in Fig.10. Those in the Windmill 3 for Sets 0-3 are the same except that 2,4,4,6 of the Bush D21 are included. Changes from the introduction of the Tyre are (Crane to Windmill 5): Set 1: none. Set 2: -2x B61; +2x D11; +1x D31. Set 3: -2x B42, +2x B52; -6x B61; +2x B71; +4x D11; +1x D31.

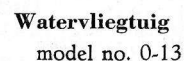
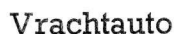
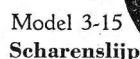
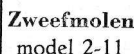
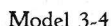
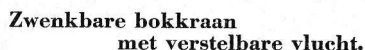
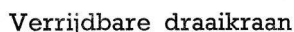
**Other Sets** On the page listing the STRUC Sets 1-4 in the Yacht & Crane manuals, but not the Windmills, there is a final paragraph which says 'Struc special boxes connect to No.3. With these you can go in any direction which interests you so that you can reach other Struc technical areas.

**MODELS** Not shown for the models overleaf are the building instructions, often quite lengthy for the larger models.

No.0 models are very simple but do include a Sledge & the Floatplane in Fig.20. The No.1's are mainly small Handcart type models & domestic items but there is a Ballista, a lever-operated Railway Signal, & 2 simple Cranes. The No.2 models are more interesting with centre-pivot steering on a Tractor, a 2-Seater, & the 'Hollander' in Fig.15. Other models include an extending Lamp Mounting, a Letter Balance, a Mobile Crane, a Chair-O-Planes (Fig.18), & a Lathe. Among the No.3 models are a double-leaf Lifting Bridge, an Excavator, the Crane in Fig.14, a Monoplane, a Scissor Sharpener (Fig.19), and several 2-, 3-, & 4-wheel vehicles fitted with Tyres — they include a nice Jeep & the Motorcycle & Sidecar in Fig.17. Two of the No.4 models have already been mentioned, the others are a



### Model 4—5

**STRUC: S3**